

ABSTRACT

Numerous cell phone clients use voice associates like Siri and Cortana, and the utilization of voice orders is turning out to be more normal today as gadgets, for example, Amazon Echo and Google Home are attacking our rooms. Discourse acknowledgment programming permits clients to make voice orders. Presently our program presents the Speech API, which permits clients to incorporate voice data into a web application.

With the assistance of present-day web, we can depend on an assortment of UI capacities to speak with clients. With the Web Speech API, we can utilize voice orders to foster rich sites with local clients and little web clients. There are a wide range of ways of visiting, and we are attempting to utilize chatbots that are valuable for instruction.

This permits numerous applications to be utilized on rich sites. Furthermore, the API can empower online applications to assist individuals with physical or mental handicaps or wounds. The snare of things to come will be chattier and more open!

Keywords: AI Chatbot, WEB Speech API, Web Applications.

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CHAPTER 1 INTRODUCTION

Changing Sector 4.0 aides stay up with the latest with these progressions and afterward adjusts them to the term Education 4.0. One of the abilities expected of instructors and helping staff is the capacity to join present day innovation into their preparation. The quick advancement of portable innovation, correspondence

innovation, and man-made consciousness (AI) is hampering the utilization of this innovation by instructors in the improvement of early learning media. As of late, the utilization of innovation in programming advancement has expanded drastically, and its items are utilized in all parts of our lives. This sort of correspondence is more computerized than an extraordinary innovation called PC correspondence (CMC). CMC structures incorporate texting, email, visit rooms, online gatherings, interpersonal interaction destinations, chatbots or talk rooms. Chatbot is a PC or man-made brainpower program that performs sound or text

discussions and interfaces clients to a particular level or theme that gives clever responses in their local language. Chatbot was worked for local area work and training. Nonetheless, it isn't in the possession of one individual. Subsequently, the point of this study is to break down the sorts of insight utilized in correspondence and language use as a type of language learning. The motivation behind this study is to study the chatbot created by the creator and the gathering as an instrument for learning Japanese, to cover its results, and to get familiar with chatbot to further develop mastering and instructing abilities.

PURPOSE :

The reason for the discussion is to make apparatuses to help individuals, improve on their work, and speak with PCs in regular language; however not to assume the part of a person by any means, not to emulate human discourse by any stretch of the imagination. Chatbot innovation additionally can possibly be an educating and learning instrument in the homeroom.

CHAPTER 2 LITERATURE SURVEY

2.1 Analysis of Literature:

Literature survey is the main advance in programming improvement measure. Prior to building up the instrument it is important to decide the time factor, economy and friends' strength. When these things are fulfilled, at that point the subsequent stage is to figure out which working framework and language can be utilized for building up the device. When the developers begin assembling the apparatus the software engineers need parcel of outer help. This help can be gotten from senior developers, from book or from sites. The major part of the project development sector considers and fully survey all the required needs for developing the project. Before developing the tools and the associated designing it is necessary to determine and survey the time factor, resource requirement, man power, economy, and company strength. Prior to building the framework the above thought are considered for building up the proposed framework. The significant piece of the undertaking advancement area considers and completely survey all the necessary requirements for building up the venture. For each undertaking Literature survey is the main area in programming improvement measure. Prior to building up the instruments and the related planning it is important to decide and survey the time factor, asset prerequisite, labor, economy, and friends strength. When these things are fulfilled and completely surveyed, at that point the following stage is to decide about the product details in the separate framework, for example, what kind of working framework the venture would require and what are largely the important programming are expected to continue with the subsequent stage like building up the apparatuses, and the related activities. Here we have taken the general surveys of different creators and noted down the fundamental central issues with respect to their work. In this venture literature survey assumes a prevailing part in get assets from different areas and all the connected points that are exceptionally valuable under this segment. The most awesome aspect if this is the manner in which things get all together and encourages us to suite our work according to the current information.

2.2 LITERATURE REVIEWS :

Almahri, F. A. J., Bell, D., and Merhi, M. (2019). “**Understanding Student Acceptance and Use of Chatbot in the United Kingdom Universities: A Structural Equation Modelling Approach,**” in 2020 6th IEEE International Conference on Information Management, ICIM 2020, London, in this the main discussion is about whether the students are going to accept chatbots and use them to their educational purposes and also, we get to know the uses of chatbots and their importance in the future in this review. This is a recent conference so the details of the chatbot are all updated details and this also tells us about their approach that is A structural Equation Chatbots can be the primary resource to track down inquiries on the site and answer normal inquiries; troublesome issues can be addressed to workers. Chatbots offer ordinary types of assistance, constantly 7 days per week.

Kerly, A., Hall, P., and Bull, S. 2007. “Bringing chatbots into education: Towards natural language negotiation of open learner models”. Know. -Based Syst. Here are some existing systems: ELIZA is the primary chatbot created by Joseph Weizenbaum utilizing a keyword coordinating strategy. The thought was to persuade the client info and look for certain keywords, if a catchphrase was discovered then the appropriate response was recovered. In the event that a catchphrase is not present then ELIZA would proceed, as per indicated principles, to get more data from the client to keep the discussion going.

“Assessing the Impact of Learning the Chatbot System on Student Learning Ability and Remaining Memory”. we present a review on an AI neural network based Chatbot which can be used by students, parents, faculties to know about the institution details like academics, admissions, department activities, placement cell etc. This application solves the problem of many users by giving fast responses to the respective queries. And also, it is used for academic topics for the students if they have to know certain topic suddenly at that time

2.3 SPACED INTERVAL LEARNING :

Spaced Interval learning helps students polish up what they have studied until then. The students can recall what they have memorized. Super Memo is an application that reminds students when they are about to forget. It uses an algorithm to monitor the frequency mode in which the learning happens and repeats subjects already covered. Apart from standalone chatbots, there has been an increase in the integration of these chatbots in social platforms such as Facebook, Google classroom and so on. Based on the category, language and

development platform chatbots used for education in Facebook has been studied in and the efficacy has been evaluated. Quality allocation was tabulated using Analytic Hierarchy Process (AHP). **APPEALING METHODS OF ONLINE EDUCATION** **“How effective can chatbots be in education, also relies on its attractive design. Reeves, B. & Nass, C.”** An effective way to enhance interaction among mentors and learners in Massive Open Online Courses (MOOC) is the use of the virtual tutoring assistance, Chatbots. Though there has been an enormous rise in the number of courses provided online, there has been low student maintenance. This has been mainly due of exchange of communication between the mentor and the student. To illustrate, a study was conducted by employing a teaching assistant (TA) named by Jill Watson (JW) for the Georgia Tech OMSCS 7637 study on Knowledge Based Artificial Intelligence (KBAI). **“Nanaware, Rasika. “Chatbot for Education System.”, Corpus ID: 58318311, (2018).”** It is a false assumption for teachers who think the chatbots may take up their job and they will be laid off. It only simplifies tasks for them by helping students with frequent queries and assessing them personally. A study was done to find the viewpoint of teachers to the usage of the talkbots in their syllabus and it was found that an attitude rating score (mean) of 3572 was obtained which proved they were optimistic to this technology. They also suggested improvements where chatbots should incorporate an option to search similar to web search. To summarize, there has been a lot of investigations on the use of the artificial conversational entity over ages and the research still continues for enhanced results and switch over to a digital era. While there are limitations to its usage that includes lack of funds and qualified teachers, this paper reviews previous literatures where chatbots benefitted the students and teachers simultaneously which outweighs the limitations and promises a better education.

CHAPTER 3

AIM OF THE PROJECT

3.1 Aim and Scope:

The reason for the discussion is to make apparatuses to help individuals, improve on their work, and speak with PCs in regular language; however not to assume the part of a person by any means, not to emulate human discourse by any stretch of the imagination. Chatbot innovation additionally can possibly be an educating and learning instrument in the homeroom. The chatbots are not popular these days but we should not underestimate the technology and in a few years, there may be a demand for chatbots and these chatbots were used to eliminate call center jobs, replace lawyers and prevent end users from ever having to fill out html form again. At present the chatbots largely failed to live up to their expectations but there is something we should know first is to keep in mind is that we always overestimate the change that occur in the next two years and underestimate the change that will occur in the next ten years. I think chatbots are currently sitting somewhere in the trough of disillusionment but conversational experiences can be very effective when tail rod to a specific business need.

3.2 ADVANTAGES:

- Chatbots can be the primary resource to track down inquiries on the site and answer normal inquiries; troublesome issues can be addressed to workers.
- Chatbots offer ordinary types of assistance, constantly 7 days per week.
- Helps the tutor to reduce the workload
- Helps students to learn the topics of desired subjects whenever they needed when the teacher is unavailable

CHAPTER 4

SYSTEM DESIGN AND METHODOLOGY

4.1 EXISTING SYSTEM:

This study is an investigation of how to decipher. The data accumulated in this study depends on an audit of the fundamental writing on chatbot and its utilization. A survey of the books is intended to recognize the sorts of discussions, particularly as far as instruction in language learning, and their assets and shortcomings in language educating and learning. The review remembered a report for Gengobot's responses, a conversation-based methodology. The chat bot system introduces the areas where the people will interact and get solutions. Having the environment that one paves a path to chat bot system users. That path may be based on querying and answering. Introduced chat bot system will provide an interface that depends on text. This allows the users to type the commands and receive the text. It also involves receiving end may be having response as text to the speech. It uses the state full based services which could remember the commands that previously asked that may be conversation. This system is developed in order to enhance the functionality. It allows the different set of people to be organizing in a specified space in order to make their discussion. The technology named chat bot can be highly utilized by large set of people in their working environment. This mechanism has developed by using Artificial based algorithms that allows the people to input their queries. Queries can be taken by chat bot and it has been analyzed and understudied. There is no specific format for inputting the queries. The answers for every query have been provided since the system had used advance technology namely Artificial Intelligence. Finally, it also helpful for student in case of their inquiry, update of their information, activities or events of college etc....

4.2 ARCHITECURAL DESIGN

Non-functional requirement (NFR) is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors. They are contrasted with functional requirements that define specific behavior or functions. The plan for implementing non-functional requirements is detailed in the system architecture, because they are usually architecturally significant requirements.

6.1 PORTABILITY

It is the usability of the same software in different environments. The project can be run in any operating system.

6.2 PERFORMANCE

These requirements determine the resources required, time interval, throughput and everything that deals with the performance of the system.

6.3 ACCURACY

The result of the requesting query is very accurate and high speed of retrieving information. The degree of security provided by the system is high and effective.

6.4 MAINTAINABILITY

Project is simple as further updates can be easily done without affecting its stability. Maintainability basically defines that how easy it is to maintain the system. It means that how easy it is to maintain the system, analyze, change and test the application. Maintainability of this project is simple as further updates can be easily done without affecting its stability.